

kingon

User Manual



Transportable Oxygen Concentrator P2-TOC

P2-TOC REF TN3000

CE
0598

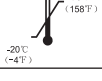
No.: DO-P2-TOC-01EU-EN Version No.: A/5 Effective Date: 2026.04.28
Software Version: KNMed_P2-TOC_V1

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Symbol	Meaning
WARNING	A warning indicates that the personal safety of the patient may be involved. Disregarding a warning could result in significant injury
CAUTION	A caution indicates that a precaution or service procedure must be followed. Disregarding a caution could lead to a minor injury or damage to device
	See User Manual for Instructions
	AC Power
	DC Power
	No Smoking
	Keep Away from Open Flames
	Keep Dry
	Use No Oil or Grease
	Do Not Disassemble (contact your device provider for servicing by authorized personnel)
	Do Not Dispose of In Unsorted Municipal Waste
	Type BF Applied Part
	Class II (Double Insulated)
	See Instructions for Use
	Manufacturer
IP22	Protected against solid foreign objects of 12.5 mm and greater and vertically falling water drops when enclosure tilted up to 15° (IEC 60529)
	Date of Manufacture
	Serial Number
	This Side Up
	Fragile
	Medical Device

Symbol	Meaning
UDI	Unique Device Identifier
	Stacking Limit By 4
	Dimension
	Net Weight
	Gross Weight
	Quantity of Packaging Unit
	Output of Oxygen
	Input of Power Supply
	Importer
LOT	Batch Code
	Made in China
	No Roll
#	Model Number
	Storage Humidity (Non-condensing)
	Storage Temperature
REF	Reference Number
	Magnetic Resonance Unsafe
	The manufacturer of this POC has determined this device conforms to all applicable FAA requirements for POC carriage and use on board aircraft
CE 0598	Complies With Applicable EU Directives; Including Medical Device Directive
EU REP	Authorised Representative in the European Community

Indications for Use

The transportable oxygen concentrator P2-TOC is intended to provide supplemental oxygen. It is to be used in home healthcare environment included indoors, outdoors and in vehicles.
The device is not intended to be life-supporting.

Intended Population

The intended population for the use of transportable oxygen concentrator P2-TOC encompasses individuals with various respiratory conditions who require supplemental oxygen therapy to manage their symptoms and improve their quality of life. The device is for adult only.

Intended Operator

An adult operator capable of understanding the user manual may be a healthcare professional, layperson, or the patient.

Contraindications

It is contraindicated in patients with oxygen poisoning.

Side Effects

Higher flow rates of cold and dry oxygen may have induced nasal mucosal drying and discomfort.

Expected Life

Service Item	Expected Life
Transportable Oxygen Concentrator P2-TOC	5 Years
Rechargeable Power Cartridge (Battery Module)	500 Full Charge/Discharge Cycles
Molecular Sieve Beds	24 Months

General Precautions

WARNING

A backup oxygen source is recommended for power outages or mechanical problems. Ensure that you have a readily accessible backup oxygen source as advised by your healthcare professional or doctor.

CAUTION

In most countries, this device must be purchased from a doctor or with a doctor's prescription.

CAUTION

MUST HAVE BACK UP OXYGEN SUPPLY WHEN TRAVELING.

It is the responsibility of the patient to make back-up arrangements for alternative oxygen supply when traveling. We assume no liability for persons that do not adhere to manufacturer recommendations.

CAUTION

The expected life is depending on the environment of usage and the maintenance. Operating the device outside of the recommended environmental conditions (temperature range: 41°F to 104°F (5°C to 40°C); humidity range: 10% to 90%, non-condensing; altitude range: 0 to 10,000 ft) will shorten the lifetime of the transportable oxygen concentrator P2-TOC.

WARNING

The operator should read and understand this entire manual before using the device.

WARNING

Patients who are unable to hear or see an alert from the device, or who are unable to communicate discomfort while wearing the device, will require additional monitoring to avoid injury or harm. If the patient experiences any new symptoms, seek medical attention immediately.

WARNING

In certain circumstances, oxygen therapy can be hazardous. Please seek medical advice before using this device.

WARNING

Smoking during oxygen therapy is dangerous and is likely to result in facial burns or death. Do not allow smoking within the same room where the transportable oxygen concentrator P2-TOC or any oxygen carrying accessories are located. If unable to leave the room, you must wait 10 minutes after you have turned the Transportable Oxygen Concentrator P2-TOC off.

General Precautions-Continued

WARNING

Do not submerge the transportable oxygen concentrator P2-TOC or any of the accessories in liquid.

Do not expose to water or precipitation.

Do not operate in the rain/wet weather conditions.

Exposure to moisture can lead to electrical shock and/or damage.

CAUTION

Do not use oil or grease on the transportable oxygen concentrator P2-TOC or its components as these substances, when combined with oxygen, can greatly increase the potential for a fire hazard and personal injury.

CAUTION

Never leave the transportable oxygen concentrator P2-TOC in high temperatures / high humidity such as in a car in high heat or a bathroom with high humidity. This can damage the device.

WARNING

If you feel any discomfort or are experiencing a medical emergency while using this product, seek medical assistance immediately to avoid harm.

WARNING

The oxygen delivery settings of the transportable oxygen concentrator P2-TOC should be periodically reassessed for the effectiveness of the therapy.

WARNING

Set the device at the prescribed level and do not increase or decrease your flow rate from the prescribed level until you first consult with your doctor or healthcare professional.

WARNING

Use this device only as prescribed. The use of oxygen therapy can be hazardous in some circumstances. Always consult your health care practitioner before using the transportable oxygen concentrator P2-TOC.

WARNING

The settings of the transportable oxygen concentrator P2-TOC might not correspond with a continuous flow of oxygen.

WARNING

The settings of other models or brands of oxygen therapy device do not correspond with the settings of the transportable oxygen concentrator P2-TOC.

General Precautions-Continued

WARNING

There is a risk of fire associated with oxygen device and therapy. Do not use near sparks or open flames.

WARNING

The device is not intended for life support, nor does it provide any patient monitoring capabilities.

WARNING

Geriatric or any other patient unable to communicate discomfort, or hear or see the alarms while using this device, may require additional monitoring.

WARNING

Set the device at the prescribed level and do not increase or decrease your flow rate from the prescribed level until you first consult with your physician or healthcare professional.

WARNING

Oxygen makes it easier for a fire to start and spread. Do not leave the nasal cannula or mask on bed coverings or chair cushions, if the Transportable Oxygen Concentrator P2-TOC is turned on, but not in use. The oxygen will make the materials flammable. Turn the transportable oxygen concentrator P2-TOC off when not in use to prevent oxygen enrichment.

WARNING

Use only water-based lotions or skin creams that are oxygen compatible during setup or using oxygen therapy. To avoid the risk of fire and burns, never use petroleum or oil-based lotions or salves.

WARNING

Smoking during oxygen therapy is dangerous and may result in fire which can cause serious injury or death of the patient and others.

WARNING

To ensure that you receive the correct therapeutic amount of oxygen delivery according to your medical condition:

- Transportable oxygen concentrator Kingon P2-TOC must be used only after one or more settings have been individually determined or prescribed for you at your specific activity levels.
- Transportable oxygen concentrator Kingon P2-TOC must use only the parts and accessories that were provided by the manufacturer, and those that were used while your personalized settings were configured.

General Precautions-Continued

WARNING

Do not lubricate replaceable fittings, connections, tubing, or other accessories of the transportable oxygen concentrator P2-TOC to avoid the risk of fire and burns.

WARNING

Use only spare parts recommended by the manufacturer to ensure proper function and to avoid the risk of fire and burns.

WARNING

Wind or strong drafts can adversely affect accurate delivery of oxygen therapy. Examples include:

- Using this device beside an open window or in front of a fan can affect the accuracy of delivery of oxygen.
- Using this device in a convertible car with the top down can affect the accuracy of delivery of oxygen.

WARNING

Use of this device at an altitude above 10,000 ft (3,048 meters) or outside a temperature of 41°F to 104°F (5°C to 40°C) or a relative humidity above 90% is expected to adversely affect the flowrate and the percentage of oxygen and consequently the quality of the therapy.

WARNING

The transportable oxygen concentrator Kingon P2-TOC can be relied upon to deliver the set flowrate and concentration of oxygen after 5 minutes of switching on.

WARNING

Some respiratory efforts of the patient might not trigger the transportable oxygen concentrator Kingon P2-TOC.

WARNING

The transportable oxygen concentrator Kingon P2-TOC is not intended for use with a tracheotomised patient.

WARNING

When the transportable oxygen concentrator P2-TOC is stored and used, pollutants and fumes should be avoided.

General Precautions-Continued

WARNING

The nasal cannula is a single use medical device. It can cause respiratory infections and other illnesses if reused.

WARNING

After the transportable oxygen concentrator P2-TOC is powered on and preheated for 5 minutes, please check whether there is an alarm signal-alarm sound, interface display and alarm indicator. (Absence of breath alarm is detected in pulse mode, and the alarm will disappear after breathing is sensed). If yes (except absence of breath alarm), please follow the main interface alarm display information to operate, please stop using and contact the supplier immediately. If not, it can be used normally.

WARNING

The connection between the nasal cannula and the oxygen outlet of the device can be tested with soapy water for the presence of air leakage. Apply soapy water to the joint. If there are obvious bubbles, remove the nasal cannula and reconnect it or contact the supplier.

WARNING

If you notice any of the following, STOP use immediately and contact your equipment provider:

- Unexplained changes in the performance of this device;
- Unusual or harsh sounds;
- Dropping or mishandling the device or the power supply;
- Water spilled into the enclosure;
- Broken or cracked enclosure.

WARNING

Oxygen is a combustion supporting gas, and a fire may start easily if device is used improperly. Do not leave the nasal cannula on bed coverings or chair cushions if the transportable oxygen concentrator P2-TOC is turned on, but not in use. Always turn the transportable oxygen concentrator P2-TOC off when not in use.

WARNING

To ensure proper function and to avoid the risk of fire and burns:

- Use only with transportable oxygen concentrator P2-TOC AC and DC power supply.
- Use only with transportable oxygen concentrator P2-TOC battery module.
- Use only approved transportable oxygen concentrator P2-TOC accessories.

General Precautions-Continued

WARNING

Remove the rechargeable power cartridge (battery module) from the device if the transportable oxygen concentrator P2-TOC will not be used for an extended period of time.

WARNING

Device operation exceeding the voltage, breath rate, temperature, humidity and/or altitude values specified may decrease oxygen concentration levels.

WARNING

Do not modify this system or device in any way. Modifications could result in hazards to the user.

WARNING

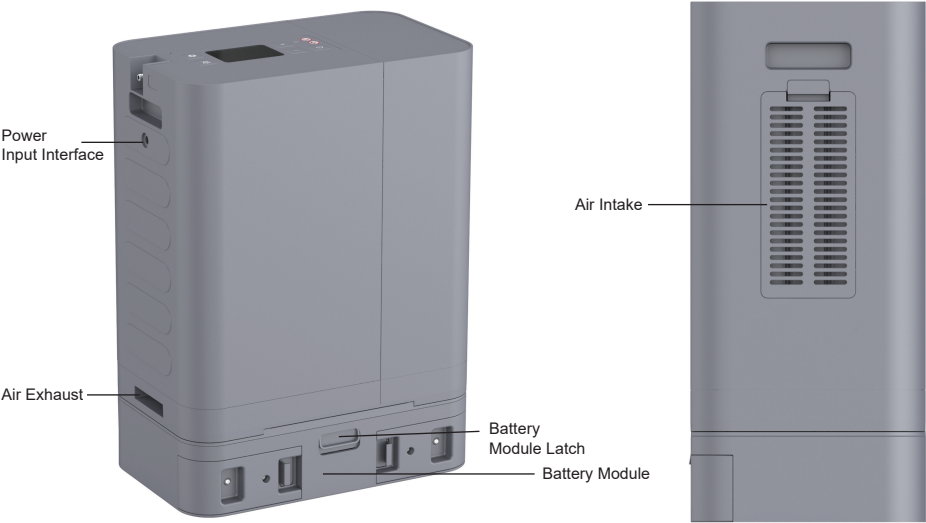
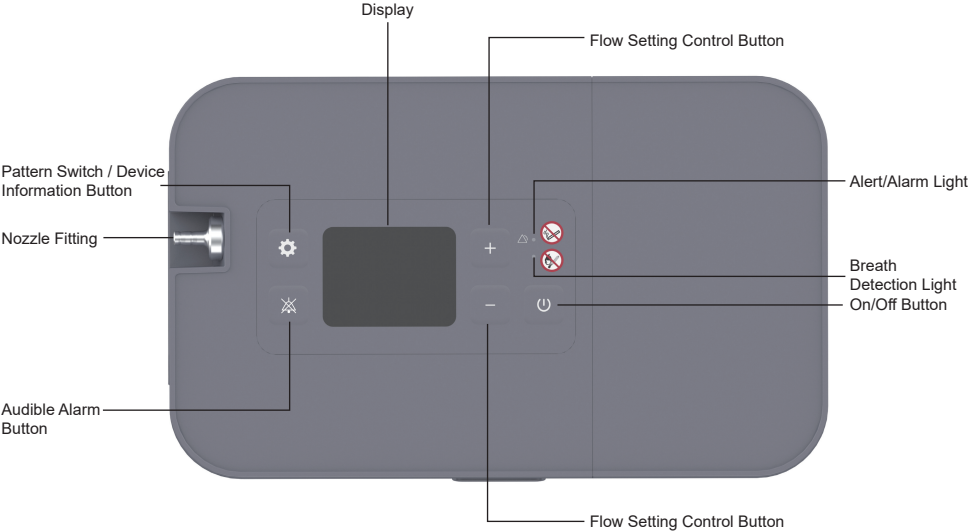
Changes in altitude may affect the amount of oxygen supplied by the device. Consult your physician before travelling to a place with altitude changes.

CAUTION

Any serious incident that has occurred in relation to the device should be reported to the manufacturer and the competent authority of the member state in which the user and/or patient is established.

Note: Additional warnings, cautions, and notes are located throughout the manual.

Parts Diagram



Product Introduction

The transportable oxygen concentrator P2-TOC is a device that uses the principle of molecular sieve pressure swing adsorption to increase oxygen concentration by adsorption of nitrogen and other gas components. The device needs to be used with a nasal cannula, which can provide oxygen supplementation to the user. (However, it is not life-supporting nor life sustaining device.) The device can be used continuously in home healthcare environment included indoors, outdoors and in vehicles.

The transportable oxygen concentrator P2-TOC has two oxygen supply modes, namely continuous oxygen supply mode and pulse oxygen supply mode. Hereinafter referred to as "continuous mode" and "pulse mode".

In the continuous mode, the transportable oxygen concentrator P2-TOC can continuously deliver oxygen at a fixed flow rate. In pulse mode, the transportable oxygen concentrator P2-TOC delivers oxygen based on the detected human respiratory rate.

The transportable oxygen concentrator P2-TOC can be powered by an internal battery module (lithium-ion battery module), or by an AC power supply (model No.: EM12502J) or a DC power supply (model No.: ED1010C) connected to a power supply.

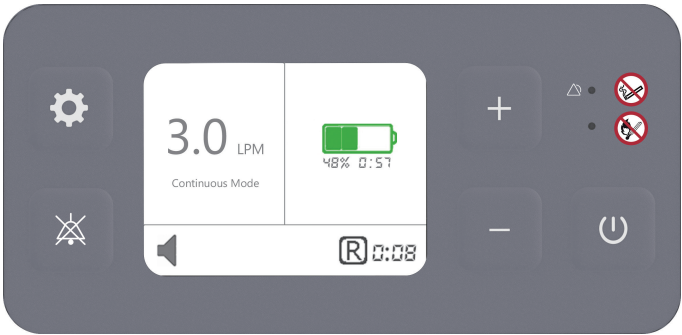
Function and Interconnects with Other Components

Transportable oxygen concentrator P2-TOC connecting with nasal cannula which provide oxygen produced from device to patients during normal operation. The device is powered by installed standard lithium ion battery module, AC and DC.

The transportable oxygen concentrator P2-TOC consists of two parts: an transportable oxygen concentrator P2-TOC and accessories. Transportable Oxygen Concentrator P2-TOC is composed of compressor, solenoid valves, molecular sieve, circuit control system, heat ex-changer system, and a flow control system. Accessories include power supplies, Battery module, nasal cannula, backpack and cart.

User Interface Buttons and Display Symbols

Display Panel:

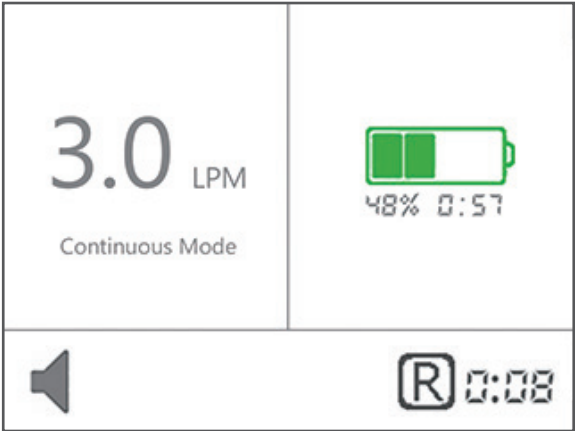


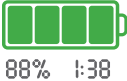
Symbol	Description	Instructions
	On/Off Button	Press once to turn on. Press and hold for three seconds to turn off.
	Audible Alarm Button	Press once to toggle between Audible and Mute Modes. The panel will display the appropriate icon to indicate which mode is enabled.
	Flow Setting Control Buttons	Increase or decrease the oxygen flow setting by pressing "+" or "-".
	Pattern Switch / Device Information Button	Short press to switching pulse and continuous mode. Press and hold for three seconds to display information about the device, including battery module temperature, battery module status, molecular sieve runtime and status, device model, device temperature, device runtime, firmware version, hardware version.

User Interface Buttons and Display Symbols-Continued

Home Screen

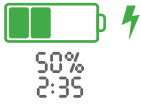
Home screen will show the icon as:



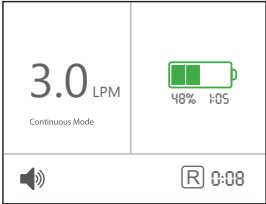
Icon	Description
3.0	Current flowrate (range is 1.0 L/min-3.0 L/min on countinuous mode).
	Battery module charge level: • Battery module percentage remaining. • Battery module time remaining (hours:minutes).
	Device runtime since powered on (hours:minutes).
	Mute Mode
	Audible Mode

User Interface Buttons and Display Symbols-Continued

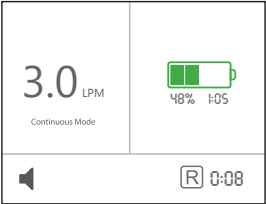
The screen will also display the following icons:

Icon	Description
	Powered by AC or DC only.
	1. Powered by battery module only (not plugged in and charging). 2. Battery module level percentage and time remaining (hours:minutes). 3. Device on.
	1. Battery module is charging. 2. Battery module level percentage and estimated time to fully charge the battery module. 3. Device on.
	1. Battery module is charging. 2. Battery module level percentage and estimated time to fully charge the battery module. 3. Device off.
	The device has detected an active alarm while in Mute Mode.
	The device has detected an active alarm while in Audible Mode.
	Runtime of device (hours:minutes) since it was powered on. The icon on the left shows 2 hours and 35 minutes.
	Multiple alerts have been detected. Display will scroll to display all alerts.

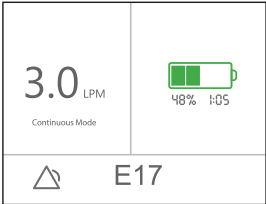
No Alerts in Audible Mode:



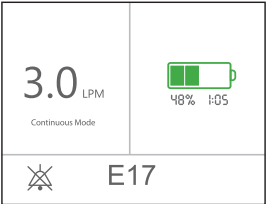
No Alerts in Mute Mode:



Alerts in Audible Mode:



Alerts in Mute Mode:



Alerts

Adapter plug/unplug:

An adapter icon displays when adapter is plugged in and disappears when unplugged.
If enabled, an audible alarm will sound.

Battery module plug/unplug:

A battery module icon displays when battery module is connected and disappears when disconnected.
If enabled, an audible alarm will sound.

Alarm Codes Display on Screen	Alarm Code Description	Alarm Condition	System Process
 E01	Power Supply Fail Contact Provider	System voltage < 10.5 V	Auto-shut down after 10 seconds
 E02	System Startup Fail Contact Provider	Concentration < 87% continuously > 120 s after system startup	Alarm only
 E03	Gas Supply Fail Contact Provider	Flow or concentration below normal after injection	Alarm only
 E04	Battery Module Hot Shut Down, Only Use Adapter	Battery Module temperature > 149°F/65°C	Auto-shut down after 10 seconds
 E05	System Hot Move to Cooler Place	System temperature > 140°F/60°C	Auto-shut down after 10 seconds

Alerts-Continued

Alarm Codes Display on Screen	Alarm Code Description	Alarm Condition	System Process
 E06	Battery Module Cold Move to Warmer Place	Battery Module temperature < 32°F/0°C	Alarm only
 E07	System Cold Move to Warmer Place	System temperature < 32°F/0°C	Alarm only
 E08	Battery Module Depleted Replace Battery Module /Connect Adapter	RSOC < 5% without adapter	Auto-shut down after 10 seconds
 E09	Cooling Fan Fail Contact Provider	Cooling fan failed	Auto-shut down after 10 seconds
 E0A	Valve Check Fail Contact Provider	Valve switch failed	Auto-shut down after 10 seconds
 E0B	Compressor Fail Contact Provider	Compressor failed	Auto-shut down after 10 seconds



Alerts-Continued

Alarm Codes Display on Screen	Alarm Code Description	Alarm Condition	System Process
 E0C	Sieve Bed Fail Contact Provider	Sieve bed failure or invalid	Auto-shut down after 10 seconds
 E0D	Tank Pressure Fail Contact Provider	Tank pressure failed	Alarm only
 E0E	Gas Obstruction Contact Provider	Pipe or Nasal Cannula blocked	Alarm only
 E0F	Gas Delivery Fail Contact Provider	No delivery detected after injection	Alarm only
 E10	Oxygen Sensor Fail Contact Provider	Oxygen sensor failed	Alarm only, if improved then alarm clear If condition persists, contact provider
 E11	Breath Sensor Fail Check if Cannula Kinked or Blocked	Breath sensor failed	Alarm only, if improved then alarm clear If condition persists, contact provider

Alerts-Continued

Alarm Codes Display on Screen	Alarm Code Description	Alarm Condition	System Process
 E12	Oxygen Concentration < 50% Contact Provider	Concentration < 50% continuously for more than 10 minutes	Alarm only, if improved then alarm clear If condition persists, contact provider
 E13	Low Battery Module Charge Now	$5\% \leq \text{RSOC} \leq 20\%$ Without adapter	Alarm only
 E14	Oxygen Concentration < 87% Contact Provider	Concentration < 87% continuously for more than 10 minutes	Alarm only
 E15	Absence of Breath Check Cannula	No breath detected continuously for more than 60 seconds	Alarm only
 E16	Low Input Voltage Check Adapter	Adapter input < 17.0 V	Auto-switch to Battery Module until the adapter input > 18 V
 E17	Battery Module Exhausted Replace Battery Module	Battery Module cycle > 500 or Battery Module health < 50%	Alarm only

Note: RSOC stands for Battery Module power percentage.

Built-in Fire Breaker

Transportable oxygen concentrator Kingon P2-TOC is with a built-in Fire Breaker that prevents propagation of fire into the device while stopping flow of oxygen.

When the device detects that an open flame has spread to the oxygen nozzle through the built-in temperature sensor, the device will stop oxygen flow, an audible three loud consecutive beeps will come on at intervals of 5 seconds accompanied by the off of O₂ work indicator light, then device will auto shut down after 10 minutes.

Caution: Only restart the device at least 30 minutes after your detaching of the open flames or fire.

Contact your provider if you have any questions concerning the fire breaker.

Power Supply

Rechargeable Power Cartridge (Battery Module) # BA-M650

The transportable oxygen concentrator P2-TOC is powered by a rechargeable power cartridge (battery module).

When fully charged, the BA-M650 battery module can provide up to 6.5 hours of operation. Recharge the battery module with the AC power supply. Recharging time is not more than 5.0 hours, and only 3.4 hours to 90%.



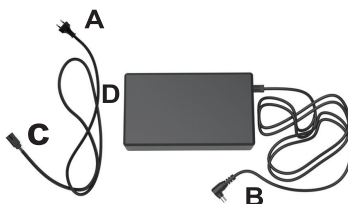
WARNING

The BA-M650 battery module runs for approximately 10 minutes at its maximum flow setting that can be run, from a low battery module alarm when the battery module level is 20% to an automatic shutdown when the battery module level is less than 5%.

AC Power Supply # EM12502J

The AC power supply is used to power the transportable oxygen concentrator P2-TOC from an AC power source. When using the AC charger, the power supply automatically adapts to input voltages from 100 V to 240 V (50-60 Hz) allowing it to be used with most power sources throughout the world.

1. Connect A plug to nearest AC power outlet.
2. Connect C to D port.
3. Connect B to the transportable oxygen concentrator P2-TOC.



Power Supply-Continued

DC Power Supply # ED1010C

The DC power supply is designed for use with the Transportable Oxygen Concentrator P2-TOC. The DC power input cable connects directly to the car cigarette lighter or auxiliary DC power supply. The input DC power is 11-16 VDC, fuse rating is 15 A/125 V, and output is 19 V/6.3 A.



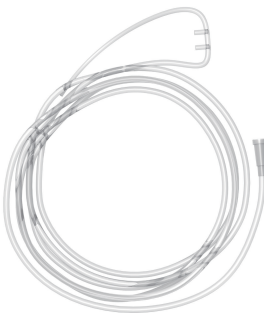
WARNING

Do not use power supplies or power cables other than the specified above.
Do not use power supplies/adapters or accessories other than those specified above.
The use of non-specified accessories may create a safety hazard and/or impair device performance.

Accessories

Nasal Cannula (Optional)

The Transportable Oxygen Concentrator Kingon P2-TOC must be used with a single-lumen nasal cannula to deliver oxygen to the patient.



The following nasal cannula are recommended for use with the transportable oxygen concentrator P2-TOC.

Nasal Cannula Model: # NOC-DAW0721

Nasal Cannula Manufacturer: Ningbo Runmai Medical Technology Co., Ltd.

Accessories-Continued

WARNING

Nasal cannula should not be used by more than one person. DO NOT USE a cannula in combination with an extension tube with a length exceeding 25 ft (7.6 m).

CAUTION

When using a long cannula, the flow setting may need to be increased. Increasing the cannula length may reduce the perceived noise during oxygen bolus delivery.

CAUTION

Single Patient Use for the cannula.

CAUTION

Choose a nasal cannula with CE mark (Recommended Choice is Runmai NOC-DAW0721).

CAUTION

It is recommended to replace the nasal cannula after continuous use for more than 24 hours.

Carry Bag # BP-TOC

The transportable oxygen concentrator P2-TOC carry bag can be fixed and fastened on cart to go out for daily activities.

Front pocket can be used to carry AC power supply or belongings of patients.



Accessories-Continued

Cart # CT-TOC

The transportable oxygen concentrator P2-TOC cart allows you to go out for daily activities.



Put transportable oxygen concentrator P2-TOC inside carry bag, then put carry bag to cart base. Use the adjustable hook-and-loop fasteners straps to securely fasten the Carry Bag to the Cart handle.



Accessories List

Description	Model #
Transportable Oxygen Concentrator	P2-TOC
Carry Bag	BP-TOC
AC Power Supply	EM12502J
DC Power Supply	ED1010C
Intake Filter-2	FI-T002
Intake Filter-1	FI-T001
Rechargeable Power Cartridge (Battery Module)	BA-M650
Cart	CT-TOC

General Operation

1. **Find a well ventilated location to place the Transportable Oxygen Concentrator P2-TOC. Ensure that the unit is turned off.**

Ensure the intake and exhaust has clear access. The transportable oxygen concentrator P2-TOC should be placed where any alarms can be heard.

WARNING

Do not use transportable oxygen concentrator P2-TOC in the presence of flammable anesthetics, detergents, or other chemical vapors.

CAUTION

It requires 30 minutes for the transportable oxygen concentrator P2-TOC to warm from the minimum storage temperature between uses until it is ready for intended use.

It requires 30 minutes for the transportable oxygen concentrator P2-TOC to cool from the maximum storage temperature between uses until it is ready for intended use.

CAUTION

Do not block the air intake or air exhaust when operating the device. Blocked air circulation or proximity to the heat source can cause internal heat build-up, shut down, or damage to the transportable oxygen concentrator P2-TOC.

CAUTION

The transportable oxygen concentrator P2-TOC is designed for continuous use.

The transportable oxygen concentrator P2-TOC maximum duration time is 24 hours while providing sufficient power to the device and ensuring that both the device and accessories are within expected life.

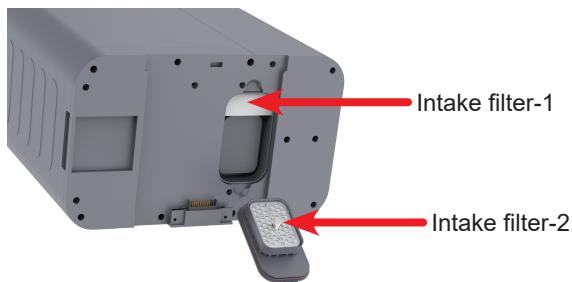
It is useful to operate the device frequently for optimal sieve bed life.

CAUTION

Transportable oxygen concentrator P2-TOC is shipped from factory with rechargeable power cartridge (battery module) removed.

CAUTION

Ensure these two filters are in place.



General Operation-Continued

Do not operate the transportable oxygen concentrator P2-TOC without intake filter in place. Operating the device without these in place can damage the device.

2. Install the Rechargeable Power Cartridge (Battery Module).

Slide the battery module into place until the latch returns to the upper position. There will be an audible sound when the battery module is in position.



3. Connect the AC or DC power to Transportable Oxygen Concentrator P2-TOC.



CAUTION

Do not place anything in the power supply port other than the supplied wall cord. Avoid the use of electrical extension cords with the transportable oxygen concentrator P2-TOC.

CAUTION

Power supply is not waterproof. Do not disassemble the power supply.

CAUTION

When the power is disconnected from the AC outlet, disconnect it from the transportable oxygen concentrator P2-TOC to avoid unnecessary rechargeable power cartridge (battery module) discharge.

General Operation-Continued

4. Connect the nasal cannula to the nozzle fitting.

Nozzle fitting is located on the top side of the transportable oxygen concentrator P2-TOC. Connect a nasal cannula to the nozzle fitting on the device (pictured).



CAUTION

Ensure that the cannula is routed to prevent it from being pinched or kinked to avoid a disruption of oxygen flow.

CAUTION

The proper placement and positioning of the prongs of the nasal cannula in the nose is critical to the amount of oxygen delivered to the respiratory system of the patient.

5. Press the on/off button to turn on the Transportable Oxygen Concentrator P2-TOC.

At startup, the device will beep and the indicator light will flash.

"" will appear on the display at start up. A five-minute warm-up period will begin, during which the oxygen concentration will gradually increase but may not immediately reach the specified level.

In certain conditions, such as exposure to very cold temperatures during storage or use, a longer warm-up time may be necessary.

CAUTION

Oxygen concentration may not reach specification during the five-minutes warm up time.

CAUTION

30 seconds after startup, the transportable oxygen concentrator P2-TOC will enter auto-pulse mode. During these 30 seconds, inhalation will not work.

CAUTION

Ensure the power is in a well-ventilated place. During operation, the power supply may get hot. Ensure the power supply is cool before handling.

General Operation-Continued

CAUTION

When the ambient temperature is $\leq 20^{\circ}\text{C}$ (68°F), the time required for the device to operate stably from -20°C or 70°C (-4°F or 158°F) is 30 minutes.

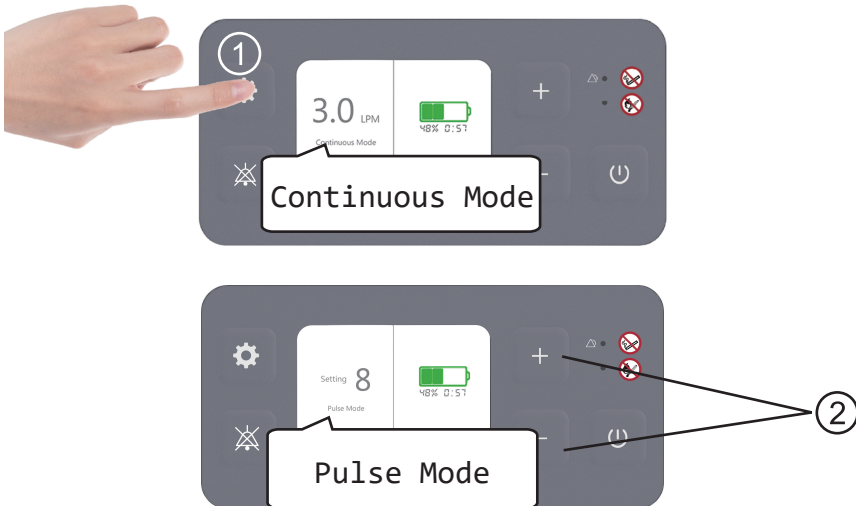
6. Wear the nasal cannula on your face and breathe through your nose.



7. Select flow delivery mode and adjust flow setting to prescribed level.

Note: Set to the flow rate prescribed by your physician or clinician.

Short press the pattern switch/device information button switching pulse and continuous mode.



Press the "+" or "-" setting buttons to adjust the Transportable Oxygen Concentrator P2-TOC to the desired flow rate.

General Operation-Continued

In pulse mode:

The transportable oxygen concentrator P2-TOC will sense if you are breathing from it. If you are not yet breathing through the cannula, the Transportable Oxygen Concentrator P2-TOC will begin to pulse automatically about every 3 seconds.

As soon as you begin breathing through the cannula, the device will begin delivering pulses based on your breathing. As your breathing rate changes, the transportable oxygen concentrator P2-TOC will sense these changes and adjust the pulse volume of oxygen at your next inhale.

In the pulse mode, there are 1-10 flow settings that can be adjusted, the flow range is 0.2 L/min-2.0 L/min, and the concentration range is 90%-3%/+6%. Please refer to the manual section transportable oxygen concentrator P2-TOC specifications for details.

In continuous mode:

A constant flow rate of oxygen will be provided.

In continuous mode, there are 1-5 flow settings that can be adjusted, the flow range is 1.0 L/min-3.0 L/min, and the concentration range is 90%-3%/+6%. Please refer to the manual section transportable oxygen concentrator P2-TOC specifications for details.

WARNING

If you feel discomfort using the device, consult your doctor immediately.

CAUTION

If the oxygen level drops below recommended levels, E14 (a low oxygen: < 87%) alert will display on the screen. If the alarm persists, contact your provider.

CAUTION

Oxygen concentration may not reach specification during the five-minutes warm up time.

CAUTION

The transportable oxygen concentrator P2-TOC will notify you with an audible alert (if enabled) and a display showing "E15" (Absence of Breath Check Cannula) if no breath has been detected for 60 seconds. After 60 seconds, the device will enter auto-pulse mode until breath is detected. Once breath is detected, the device will resume normal delivery of oxygen.

Note:

To remove power, disconnect the input cord from AC power source (like AC wall outlet, DC car cigarette lighter adapter) and disconnect it from the transportable oxygen concentrator Kingon P2-TOC.

Troubleshooting

The table below lists some common problems and solutions. If you can't resolve a problem, please contact your provider.

Problem	Possible Cause	Recommended Solution
Device Won't Turn On	Rechargeable power cartridge (battery module) is not installed correctly.	Remove the rechargeable power cartridge (battery module) and re-install it correctly.
	Rechargeable power cartridge (battery module) is depleted.	Use the AC or DC power supply to operate the device (with the rechargeable power cartridge (battery module) inserted) to recharge the rechargeable power cartridge (battery module). If this does not resolve the problem, contact your device provider.
	AC supply is not connected properly.	Check AC power connection and verify solid green light on adapter.
	DC cable is not connected properly.	Check DC power connection and at cigarette lighter or auxiliary DC power source.
No Oxygen	The device is not turned on.	Turn on the transportable oxygen concentrator P2-TOC.
	Cannula is kinked or obstructed.	Check cannula and its connection to the oxygen outlet port.
	Device failure.	Contact your provider.
Oxygen Not at Full Concentration	The device is warming up.	Wait 5 minutes for the device. If the problem is not solved, please contact your device provider.
	The sieve beds may require servicing.	Contact your provider to change the sieve beds.
Alarm Occurs	Refer to previous section-Alerts.	Refer to previous section-Alerts.

Cleaning and Disinfection

The outside case should be cleaned using a damp cloth with a solution of mild detergent and water.

Transportable oxygen concentrator Kingon P2-TOC can be reused for different patients. However, prior to each change of user, the following cleaning and disinfection step must be followed, and the intake filter and cabinet filter must be replaced.

Step1 Cleaning

Clean the external casing with a soft cloth dampened with a mild liquid detergent and water, then wipe it dry.

Step 2 Disinfection

Disinfection must only be performed after cleaning.

Use a disinfectant that complies with relevant standards and is compatible with the device casing. Wipe all external surfaces thoroughly to ensure they are completely moistened with the disinfectant.

Example: Wipe all external surfaces with a lint-free cloth soaked in 75% medical alcohol and maintain wet contact for at least 10 minutes.

After disinfection, allow the device surface to dry completely before reconnecting to power.

CAUTION

Before cleaning or disinfection, please ensure that the power has been turned off and unplugged from the socket.

CAUTION

Do not allow liquids into any of the controls, the interior of the case, or the oxygen tubing connector. If this occurs, contact your equipment provider for assistance.

Cannula Replacement

The nasal cannula is disposable. You can buy replacements from your provider and follow the cannula manufacturer's instructions.

CAUTION

Nasal cannula should be FDA and CE approved and the length should be less than 25 ft (7.6 m).

CAUTION

Nasal cannula should be rated for 5 liters per minute to ensure proper patient usage and oxygen delivery.

Filter Cleaning and Replacement

Pre-Filter Cover

Pre-filter cover are designed for adequate air flow through the device at the side of the transportable oxygen concentrator P2-TOC and to ensure the clean air into the compressor. The pre-filter cover must be cleaned weekly to ensure adequate air flow. Clean the filters with a mild liquid detergent and water. Ensure that the pre-filter cover is completely dry before use.

CAUTION

It may be necessary to clean the pre-filter cover more often in dusty or polluted environments/conditions.

Intake Filter

Transportable oxygen concentrator P2-TOC has two intake filter, smaller one as ① FI-T001 and bigger one as ② FI-T002.

Filters are designed for adequate air flow through the device at the bottom of the transportable oxygen concentrator P2-TOC.

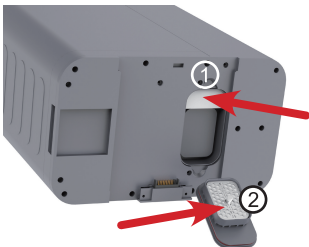
CAUTION

Intake filter FI-T001, should be replaced every 6 months and cleaned once a week; Intake filter FI-T002, should be replaced every year and cleaned once a month.

CAUTION

In the case of dusty or polluted environments/conditions, it is recommended to replace the filter cotton according to the actual use, the intake filter may need to be replaced more frequently. Do not operate the device without both intake filters installed.

FI-T001	
FI-T002	



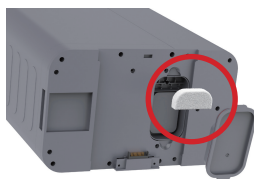
① Replace FI-T001

1. Remove the filter box from the bottom of the device.



Filter Cleaning and Replacement-Continued

2. Remove the intake filter from the intake chamber.



3. Install a new intake filter into the chamber.
4. Install filter box.

② **Replace FI-T002**

1. Remove the filter box from the bottom of the device.



2. Remove the pressing plate of filter.



3. Remove the intake filter from the filter box.



4. Put in a new intake filter.
5. Put on the pressure plate of the filter box.
6. Install the filter box.

Pre-filter cover and intake filter can be purchased from your provider.

Battery module Care and Maintenance

The transportable oxygen concentrator P2-TOC rechargeable power cartridge (battery module) requires special care to ensure proper performance and long life. Only use transportable oxygen concentrator P2-TOC battery module # BA-M650 with your transportable oxygen concentrator P2-TOC.

CAUTION

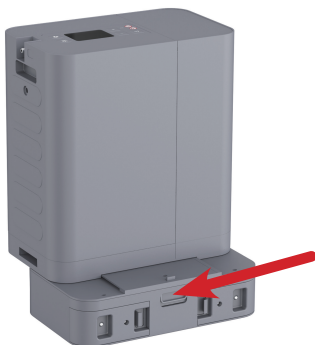
Keep liquids away from battery module. If battery module gets wet, stop using immediately and dispose of battery module properly.

CAUTION

After being fully charged and discharged 500 times, the BA-M650 battery module life is approximately 85 minutes at the maximum flow setting of pulse oxygen supply mode and approximately 50 minutes at the maximum flow setting of continuous oxygen supply mode.

Battery module Replacement

1. Press down on the latch and slide the battery module out.
2. Insert the transportable oxygen concentrator P2-TOC battery module by sliding battery module into place until the latch returns to the upper position and it clicks into place.



Effect of Temperature on battery module Performance

To extend the run-time of your battery module, the device should be used in temperatures between 41°F and 95°F (5°C and 35°C). The number of cycles that the battery module will last is highly dependent upon the temperature at which the battery module is charged.

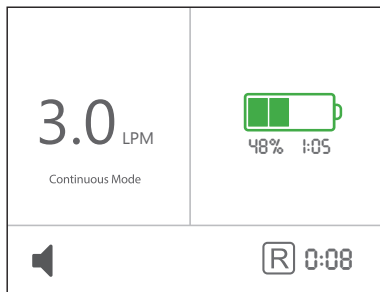
CAUTION

Kington suggests that the room temperature should not exceed 75°F (24°C) when battery module are being charged.

Battery Module Care and Maintenance-Continued

Battery module Time Remaining Clock

The transportable oxygen concentrator P2-TOC continuously displays the battery module time remaining. This displayed time is only an estimate and the actual time remaining may vary from this value.



CAUTION

Store battery module in a cool and dry place. To maintain the health and lifespan of the battery module, if you will be storing your device for awhile, please make sure you charge it every 3 (three) months to 80% and remove battery module from the device.

BATTERY MODULE SHOULD NOT BE LEFT DORMANT FOR MORE THAN 90 DAYS AT A TIME.

CAUTION

If the device is not used for an extended period of time, please remove the battery module from the device and charge it every 3 months.

Sieve Bed Replacement

Molecular sieve bed needs to be replaced by professionals. If the molecular sieve bed expires and needs to be replaced, please contact the supplier promptly according to the device alarm prompt information for replacement.

Disposal of Device and Accessories

Follow your local governing ordinances for disposal and recycling of the transportable oxygen concentrator P2-TOC accessories. The battery module contains lithium-ion cells and should be recycled and must not be incinerated.



Transportable Oxygen Concentrator P2-TOC Replacement Items

Item	Model #
Rechargeable Power Cartridge (Battery Module)	BA-M650
Intake Filter-1	FI-T001
Intake Filter-2	FI-T002
Sieve Bed	CO-T001

If you need assistance, please contact your provider.



Specifications

Mode	Flow Setting	Flowrate (L/Min)									
Continuous Flows	1	1.0									
	2	1.5									
	3	2.0									
	4	2.5									
	5	3.0									
	Deliverable flow accuracy: The flow error is less than 10% or 0.2 L/min, whichever is greater.										
Mode	Flow Setting	Flowrate (L/Min)									
Pulse Flows	1	0.2									
	2	0.4									
	3	0.6									
	4	0.8									
	5	1.0									
	6	1.2									
	7	1.4									
	8	1.6									
	9	1.8									
	10	2.0									
Flow Control Settings and Pulse Volumes	Flow Setting	1	2	3	4	5	6	7	8	9	10
	Breath Rate	Pulse Volumes (mL)									
	10	20	40	60	80	100	120	140	160	180	200
	15	13	27	40	53	67	80	93	107	120	133
	20	10	20	30	40	50	60	70	80	90	100
	25	8	16	24	32	40	48	56	64	72	80
	30	7	13	20	27	33	40	47	53	60	67
	35	6	11	17	23	29	34	40	46	51	57
	40	5	10	15	20	25	30	35	40	45	50
	Deliverable flow accuracy: ± 15% at STPD* ± 25% over the rated environmental range *STPD is 101.3 kPa at an operating temperature of 20°C (68°F), dry										
Dimensions (Length x Width x Height)	11.1 x 6.7 x 15 (inch) 28.2 x 17.1 x 38.2 (cm)										
Weight	8.0 kg ± 0.1 kg 17.64 lbs ± 0.2 lbs (with BA-M650)										

Specifications-Continued

User Interface	2.8" LCD color display screen	
Sound Level	40 dB (A) at Pulse Setting 2 45.3 dB (A) at Continuous Setting 3 LPM (Prüfmethode 14-1 10/2018 MDS-Hi)	
Audio Alarm	≥ 45 dB (A)	
Warm-Up Time	5 minutes	
Oxygen Concentration	90%-3%/+6% at all settings	
Breathing Frequency	10 to 40 BMP	
Inspiratory Trigger Sensitivity	≤ -0.12 cm H ₂ O	
Time Delay from Onset of Inspiration	<10 ms	
Delivery Pressure at The Device Outlet	Pulse Flow: 20 PSI ± 10% Continuous Flow: 5 PSI ± 10%	
Power	AC Power Supply	AC Input: 100 to 240 VAC 50 to 60 Hz
	DC Power Supply	DC Input: 11-16 VDC DC Output: 19 V = 6.3 A
	Rechargeable Power Cartridge (Battery Module)	BA-M650: Voltage: 14.4 VDC Rated Capacity: 6.6 Ah + 6.6 Ah
Use Mode	Continuous Use	
Battery module Duration	BA-M650: Up to 6.5 hours at flow setting 1 of pulse mode	
Battery module Charging Time	BA-M650: Not more than 5.0 hours 3.4 Hours at Device Standby Mode when over 90% fully charged by AC power supply. 4.5 Hours at Device Standby Mode when fully charged by AC power supply.	
Environmental Ranges Intended for Operation	Temperature: 41°F to 104°F (5°C to 40°C) Humidity: 10% to 90% non-condensing Altitude: 0 to 10,000 ft (0 to 3,048 meters, 70 kPa to 106 kPa)	

Specifications-Continued

Environmental Ranges Intended for Shipping and Storage	Temperature: -4°F to 158°F (-20°C to 70°C) Humidity: 5% to 90% non-condensing Store in a dry environment Altitude: 0 to 10,000 ft (0 to 3,048 meters, 70 kPa to 106 kPa)
Limitation of Mode and Setting	Battery module: No Limitation
	AC Power Supply: No Limitation
	DC Power Supply: Limited to Settings 1-8 in Pulse Mode Limited to 1-2.0 LPM in Continuous Mode
Operating Time	24-hours a day when connected to an external AC or DC power source.
Transportation	Keep Dry, Handle With Care.

Classifications

Item	Result
Mode of Operation	Continuous Duty
Type of Protection Against	Class II
Degree of Protection to transportable oxygen concentrator P2-TOC Components against Electrical Shock	Type BF Not intended for cardiac application
Degree of Protection to transportable oxygen concentrator P2-TOC Components against Ingress of Water	IP22-Protected against solid foreign objects of 12.5 mm and greater and vertically falling water drops when enclosure tilted up to 15° (IEC 60529)
Classification of Installation and Use	Portable/Transit-operate

Standards Compliance

The device is designed to conform to the following standards:

- IEC 60601-1: 2005/ADM1: 2012/ADM2: 2020 Medical electrical equipment - Part 1: General requirements for basic safety and essential performance
- IEC 60601-1-2: 2014/AMD1: 2020 Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic disturbances - Requirements and tests
- IEC 60601-1-6: 2010/AMD1: 2013/AMD2: 2020 Medical electrical equipment - Part 1-6: General requirements for basic safety and essential performance - Collateral standard: Usability
- IEC 60601-1-8: 2006/AMD1: 2012/AMD2: 2020 Medical electrical equipment - Part 1-8: General requirements for basic safety and essential performance - Collateral standard: General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems
- IEC 60601-1-11: 2015/AMD1: 2020 Medical electrical equipment - Part 1-11: General requirements for basic safety and essential performance - Collateral standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment
- ISO 80601-2-67: 2020 Medical electrical equipment - Part 2-67: Particular requirements for basic safety and essential performance of oxygen-conserving equipment
- ISO 80601-2-69: 2020 Medical electrical equipment - Part 2-69: Particular requirements for the basic safety and essential performance of oxygen concentrator equipment
- ISO 18562-1: 2017 Biocompatibility evaluation of breathing gas pathways in healthcare applications - Part 1: Evaluation and testing within a risk management process
- ISO 18562-2: 2017 Biocompatibility evaluation of breathing gas pathways in healthcare applications - Part 2: Tests for emissions of particulate matter
- ISO 18562-3: 2017 Biocompatibility evaluation of breathing gas pathways in healthcare applications - Part 3: Tests for emissions of volatile organic compounds (VOCs)
- ISO 10993-1: 2018 Biological evaluation of medical devices - Part 1: Evaluation and testing within a risk management process
- ISO 10993-5: 2009 Biological evaluation of medical devices - Part 5: Tests for in vitro cytotoxicity
- ISO 10993-10: 2021 Biological evaluation of medical devices - Part 10: Tests for skin sensitization
- ISO 10993-23: 2021 Biological evaluation of medical devices - Part 23: Tests for irritation

EMC Information

The device has been designed to meet EMC standards throughout its service life.

Guidance and Manufacturer's Declaration-Electromagnetic Immunity:

The transportable oxygen concentrator P2-TOC is intended for use in the electromagnetic environment specified below. The users of the Transportable Oxygen Concentrator P2-TOC should make sure that it is used in such an environment.

Immunity Test	IEC 60601 Test Level	Compliance Level	Electromagnetic Environment-Guidance
Electrostatic Discharge (ESD) IEC 61000-4-2	± 8 kV Contact ± 2 kV, ± 4 kV, ± 8 kV, ± 15 kV Air	± 8 kV Contact ± 2 kV, ± 4 kV, ± 8 kV, ± 15 kV Air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical Fast Transient / Burst IEC 61000-4-4	± 2 kV for Power Supply Lines ± 1 kV for Input/ Output Lines	± 2 kV for Power Supply Lines ± 1 kV for Input/ Output Lines	Mains power quality should be that of a typical home or hospital environment.
Surge IEC 61000-4-5	± 1 kV Line to Line	± 1 kV Line to Line	Main power quality should be that of a typical home or hospital environment.
Voltage Dips, Short Interruptions on Power Supply Input Lines IEC 61000-4-11	$< 5\% U_T$ ($> 95\%$ Dip in U_T) for 0.5 Cycle at 45 Degree Increments $70\% U_T$ (30% Dip in U_T) for 0.5 Seconds $< 5\% U_T$ ($> 95\%$ Dip in U_T) for 5 Seconds	$< 5\% U_T$ ($> 95\%$ Dip in U_T) for 0.5 Cycle at 45 Degree Increments $70\% U_T$ (30% Dip in U_T) for 0.5 Seconds $< 5\% U_T$ ($> 95\%$ Dip in U_T) for 5 Seconds	Mains power quality should be that of a typical home or hospital environment. If the users of the device be required continued operation during power mains interruptions, it is recommended that device be powered from an uninterruptible power supply or battery module.
Power Frequency (50/60 Hz) Magnetic Field IEC 61000-4-8	30 A/m	30 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical home or hospital environment.

EMC Information-Continued

Conducted RF IEC 61000-4-6	3 Vrms 150 kHz to 80 MHz	3 Vrms 150 kHz to 80 MHz	Portable and mobile RF communications equipment should be used no closer to any part of the device, including cables, than the recommended 30 cm (11.8") separation distance. Interference may occur in the vicinity of equipment marked with the following symbol: 
Radiated RF IEC 61000-4-3	6 Vrms Amateur Radio & ISM Bands between 150 kHz and 80 MHz	6 Vrms Amateur Radio & ISM Bands between 150 kHz and 80 MHz	
Radiated RF IEC 61000-4-3	10 V/m 80 MHz to 2.7 GHz	10 V/m	
Note: U _T is the A.C. mains voltage prior to application of the test level.			

CAUTION

Electromagnetic interference could disturb performance of the device (oxygen concentration and flow), resulting in alarm.

When used in the above environment, it is also necessary to avoid exposure to known sources of electro-magnetic Interference, including MRI, RFID, diathermy, and electrocautery.

CAUTION

Use of accessories (Battery module, AC power supply, DC power supply) other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic, immunity of this equipment and result in improper operation.

CAUTION

Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (11.8") to any part of the transportable oxygen concentrator P2-TOC, including cables specified by the manufacturer. Otherwise, degradation of the performance of this.

CAUTION

Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.



Guidance and Manufacturer's Declaration-Electromagnetic Emissions

The transportable oxygen concentrator P2-TOC is intended for use in the electromagnetic environment specified below. The user of the transportable oxygen concentrator P2-TOC should make sure it is used in such an environment.

Emissions test	Compliance	Electromagnetic Environment-Guidance
RF Emissions CISPR 11	Group 1	The device uses RF energy only for its internal functioning. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF Emissions CISPR 11	Class B	The device is suitable for uses in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic Emissions IEC 61000-3-2	Class A	
Voltage Fluctuations / Flicker Emissions IEC 61000-3-3	Complies	

Essential Performance List

Essential Performances	Relevant Requirements or Conditions
Accuracy of concentration	Within 90%-3%/+6% over all setting levels
Accuracy of oxygen delivery	Within 25% as indicated in the instruction for use
Power supply failure technical alarm condition	System voltage < 10.5 V
Internal electrical power source nears depletion	RSOC < 5% without adapter
Low oxygen concentration technical alarm condition	Concentration < 87% continuously > 600 s
Start-up period technical alarm condition	Concentration < 87% continuously > 120 s after system startup
Triggering signal absence alarm condition (only in pulse mode)	No breath detected continuously > 60 s
Gas supply failure alarm condition	Flow or concentration below normal after injection

Warranty

The transportable oxygen concentrator P2-TOC warranty covers the repair or replacement of the unit. The warranty term is 36 months from the date of shipment. Please contact us by telephone or email to return defective equipment under warranty and to resolve any problems. Our trained technicians will help you with any questions or problems with your transportable oxygen concentrator P2-TOC. Please make sure that your returned equipment is packaged safely for transportation, if possible, in its original packaging to avoid damages during shipping. Excluded from the warranty are damages caused by improper usage. Also excluded are replacements of battery module, disposable parts, and consumables. Sieve bed, filters, battery module are expressly excluded from the 36 months warranty, except as provided below:

Description	Period
Transportable Oxygen Concentrator P2-TOC	3 Years
Accessories (Battery Module, Carry Bag, AC Power Supply and DC Power Supply)	1 Year
Disposables (Nasal Cannula, Filters)	No Warranty
Sieve Bed	1 Year

Further damage compensation claims of any kind, particularly owing to breach of obligations and unpermitted handling, as well as claims on repayment of expenses paid in vain, are not included in the warranty. The same shall apply to claims on repayments of consequential harm caused by a defect.

Any further claims are excluded in this warranty. The aforementioned limitations do not apply to claims on damages from harm to life, body, or health or attributable to intent or gross negligence, or the product liability law.

This warranty does not cover damage or injury whether to transportable oxygen concentrator P2-TOC or to personal property or persons caused by accident, misuse, abuse, negligence, failure to install in accordance with Kingon's installation instructions, failure to operate under conditions of normal use and in accordance with the terms of the operating manual and instructions, failure to maintain in accordance with the applicable service manuals, or alteration or any defects not related to materials or workmanship of transportable oxygen concentrator P2-TOC. This warranty does not cover damage which may occur in shipment. This warranty does not apply to any product or individual part of a product that may have been repaired or altered by anyone other than Kingon or an authorized Kingon service center. This warranty does not apply to any product which is not purchased new.





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